ELECTRONIC THESIS AND DISSERTATION UNSYIAH

TITLE

EVALUASI KANDUNGAN NUTRISI CAMPURAN DAUN DAN PELEPAH SAWIT DIAMONIASI DAN DIFERMENTASI MENGGUNAKAN EFEKTIF MIKROORGANISME (EM4)

ABSTRACT

THE EVALUATION OF NUTRITIVE CONTENT OF PALM OIL FROND, AMMONIATED AND FERMENTED USING EFFECTIVE MICROORGANISM (EM4)

By

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ABSTRACT

Oil palm frond (OPF) is one of potential sources as alternative feed, but it has limited use by high crude fiber and low crude protein contents. The improvement of nutritional quality of OPF can be done by ammoniation and fermentation technologies using effective microorganism (EM4). This research is intended to evaluate nutritive value of OPF, processed by ammoniation and fermentation using urea and EM4. This experiment was conducted at Animal Nutrition Laboratory, Animal Husbandry Department, Agricultural Faculty, Syiah Kuala, Darussalam Banda Aceh, from 20 February to 22 April 2014. Materials used in this experiment were oil palm frond (PFO), urea, and effective microorganisme (EM4). This experiment was conducted by using completely factorial randomized design (CFDR) 3x2 with 3 urea dosages (A1;3% urea, A2;4% urea, A3;5% urea) and 2 EM4 dosages (B1;2% EM4, B2;4% EM4). Each combination of treatment consisted of 3 replications. The variables measured in this experiment were the percentage of dry matter (DM), crude protein (CP), crude fiber (CF), and the percentage of ash. The results of the experiments showed that there was interaction (P